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DYNAMIC SOFTWARE CODE INSTRUMENTATION METHOD AND SYSTEM

ABSTRACT OF THE DISCLOSURE

A method and system of monitoring code after being
10 compiled or assembled is provided. Software code
instructions, such as a function preamble and/or a data
manipulation instruction, are identified using debug
information and then dynamically replaced with an
instruction that will branch execution to a scratchpad
15 buffer. A routine is inserted into the scratchpad buffer,
and includes instruction(s) to generate output to a trace
buffer. Subsequent instructions in the scratchpad may
execute the replaced instruction(s) and branch back to the
address of the program code immediately following the
20 original address of the replaced instruction.